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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,738	01/08/2004	YING-CHING LEE	12194-US-PA	1737
31561	7590	12/14/2005	EXAMINER	
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100 TAIWAN			MYERS, PAUL R	
			ART UNIT	PAPER NUMBER
			2112	

DATE MAILED: 12/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/707,738	LEE, YING-CHING	
	Examiner	Art Unit	
	Paul R. Myers	2112	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 1-9 are objected to because of the following informalities: A space is missing between the words "A" and "device". Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-3, 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuan US 2002/0109675.

In regards to claim 1: Kuan teaches a device capable of integrating a card-reading function (20) and an instruction-input function (50), having a transmission interface (60') for coupling to an external device (60), comprising: a memory card connector (10) for electrically coupling a memory card (30) and accessing the memory card (30); a human-machine interface module (50) for storing an outside instruction and producing a break instruction (keyboard interrupt); and an integrated chip (40) electrically coupling to the transmission interface (60'), the memory card connector (10) and the human-machine interface module (50), wherein the integrated chip is capable of parallel processing (multiple pipes as per USB specification) input/output of the memory card connector (10) and transmitting the break instruction (interrupt) from the human-machine interface module (50) to the external device (60). Kuan does not

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expressly state that the circuitry of figure 2 is implemented on a PCB and that the USB controller is an IC. Official notice is taken that keyboards normally include a PCB with controller IC's. It would have been obvious to include the circuitry of Kuan on a PCB because this would have allowed for ease in manufacturing.

In regards to claims 2-3: Kuan teaches the interface being a USB interface.

In regards to claim 6: Kuan teaches a socket for the memory card.

In regards to claim 7: Kaun's memory card uses at least one format.

In regards to claim 8: Kaun's keyboard is a button type receiver.

In regards to claim 9: Kaun's device includes a cover (the casing of the keyboard) and a keyboard as input media.

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuan US 2002/0109675 as applied to claim 1 above, and further in view of what is well known in the art as evidenced by Milan PN 6,607,408.

In regards to claims 4-5, 12: Kuan teaches the interface being serial. Official notice is taken that serial to parallel conversion is well known in the art including for USB. It would have been obvious to use a parallel port for the keyboard of Kuan because this would have allowed for backwards compatibility to older systems that used a parallel port for the keyboard.

5. Claim 1-3, 5-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chung US 2002/0167470.

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In regards to claims 1, 10: Chung teaches a device capable of integrating a card-reading function (13) and an instruction-input function (14), having a transmission interface (15) for coupling to an external device (3), comprising: a memory card connector (2-13) for electrically coupling a memory card (2) and accessing the memory card (2); a human-machine interface module (14) for storing an outside instruction and producing a break instruction (mouse interrupt); and an integrated chip (11) electrically coupling to the transmission interface (15), the memory card connector (13) and the human-machine interface module (14), wherein the integrated chip is capable of parallel processing (multiple pipes as per USB specification) input/output of the memory card connector (2-13) and transmitting the break instruction (interrupt) from the human-machine interface module (14) to the external device (3). Kuan does not expressly state that the circuitry of figure 5 is implemented on a PCB and that the USB controller is an IC. Official notice is taken that keyboards normally include a PCB with controller IC's. It would have been obvious to include the circuitry of Kuan on a PCB because this would have allowed for ease in manufacturing.

In regards to claims 2-3: Chung teaches the interface being a USB interface.

In regards to claim 6: Chung teaches a socket for the memory card.

In regards to claims 7 and 14: Chung memory card uses at least one format.

In regards to claims 8 and 15: Chung Mouse is a button type receiver.

In regards to claim 9: Chung device includes a cover (16) and a Mouse as input media.

In regards to claim 11: Chung teaches USB which includes a SIE.

In regards to claim 13: Chung teaches a micro controller running on a program (11).

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6. Claims 4-5 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chung US 2002/0167470 as applied to claim 1 above, and further in view of what is well known in the art as evidenced by Milan PN 6,607,408.

In regards to claims 4-5, 12: Chung teaches the interface being serial. Official notice is taken that serial to parallel conversion is well known in the art including for USB. It would have been obvious to use a parallel port for the keyboard of Kuan because this would have allowed for backwards compatibility to older systems that used a parallel port for the keyboard.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul R. Myers whose telephone number is 571 272 3639. The examiner can normally be reached on Mon-Thur 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571-272-3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRM
December 7, 2005



**PAUL R. MYERS
PRIMARY EXAMINER**